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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

~~Applicant:~~ Sumeet Sandhu

Title: MULTIPLE-ANTENNA COMMUNICATION SYSTEMS AND METHODS FOR  
COMMUNICATING IN WIRELESS LOCAL AREA NETWORKS THAT INCLUDE  
SINGLE-ANTENNA COMMUNICATION DEVICES

Docket No.: 884.B71US1 Serial No.: 10/751,007  
Filed: December 30, 2003 Due Date: N/A  
Examiner: Unknown Group Art Unit: 2681

## **MS Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- A return postcard.

An Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 5 cited documents, including the International Search Report filed in corresponding PCT Application No. PCT/US2004/043324 (4 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Customer Number 21186

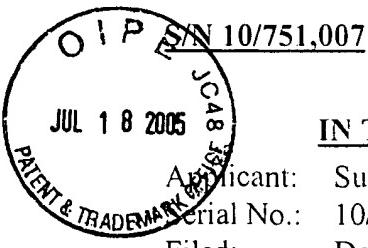
By: Ann M. McCracklin  
Atty: Ann M. McCracklin  
Reg. No. 42,858

**CERTIFICATE UNDER 37 CFR 1.8:** The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 14 day of July, 2005.

JAMES KAYUSIK  
Name

July 4, 2005  
  
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
(GENERAL)



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Sumeet Sandhu	Examiner:	Unknown
Serial No.:	10/751,007	Group Art Unit:	2681
Filed:	December 30, 2003	Docket:	884.B71US1
Title:	MULTIPLE-ANTENNA COMMUNICATION SYSTEMS AND METHODS FOR COMMUNICATING IN WIRELESS LOCAL AREA NETWORKS THAT INCLUDE SINGLE-ANTENNA COMMUNICATION DEVICES		
Assignee:	Intel Corporation	Customer Number:	21186

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**INFORMATION DISCLOSURE STATEMENT**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

The documents, listed on the attached 1449, were discovered as a result of a Search Report in Applicant's corresponding foreign patent application. Enclosed for the Examiner's information are copies of the cited foreign patent documents and the Search Report.

INFORMATION DISCLOSURE STATEMENT

Customer No.: 21186

Serial No :10/751,007

Filing Date: December 30, 2003

Title: MULTIPLE-ANTENNA COMMUNICATION SYSTEMS AND METHODS FOR COMMUNICATING IN WIRELESS LOCAL AREA NETWORKS THAT INCLUDE SINGLE-ANTENNA COMMUNICATION DEVICES

Assignee: Intel Corporation

Page 2

Dkt: 884.B71US1 (INTEL)

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

SUMEET SANDHU

By his Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Attorneys for Intel Corporation  
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(612) 349-9592

Date July 14, 2005

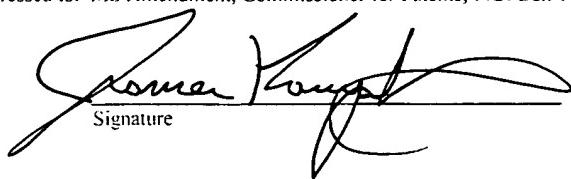
By Ann M. McCrackin

Ann M. McCrackin  
Reg. No. 42,858

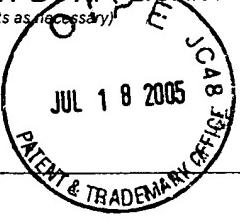
CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 14<sup>th</sup> day of July, 2005.

JAMES KANYUSIK

Name

  
Signature

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Complete if Known</b> <b>Application Number</b> 10/751,007 <b>Filing Date</b> December 30, 2003 <b>First Named Inventor</b> Sandhu, Sumeet <b>Group Art Unit</b> 2681 <b>Examiner Name</b> Unknown	
 Sheet 1 of 1		Attorney Docket No: 884.B71US1	

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2002/0041635 A1	04/11/2002	Ma, J., et al.	03/28/2001
	US-2002/0122381 A1	09/05/2002	Wu, S., et al.	12/29/2000

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
	EP-1170897A1	09/01/2002	Wang, Z., et al.	
	EP-1494381A1	01/05/2005	Sudo, H., et al.	
	WO-03/034644A1	04/24/2003	Ma, J., et al.	
	WO-03/085869A1	10/16/2003	Sudo, H., et al.	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"International Search Report for corresponding PCT Application No. PCT/US2004/043324", (Attorney Docket No. 884.B71WO1), (May 19, 2005), 4 pgs.	

**EXAMINER****DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP C09. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached